

CERAMIC AND METAL COMPOSITIONS

ABSTRACT

A novel metal/ceramic hybrid material in which the void space of the ceramic is filled with metal. The metal may be bonded to the ceramic, for example by formation of a metal
5 oxide. The metal may be introduced into the ceramic as small particles in a suspension then heated to melt the metal, allowing bonding to the ceramic or better filling of the void space. The hybrid material may be used in a variety of applications.